

Annex SFB

Studienfachbeschreibung (subject description, SFB) for the subject Computer Science und Sustainability as a Bachelor's with 1 major with the degree "" (180 ECTS credits)

Responsible: Faculty of Mathematics and Computer Science

Responsible: Institute of Computer Science

Examination regulations version: 2025 Examination regulations version: 2025

Abbreviations used: Course types: $\mathbf{E} = \text{field trip}$, $\mathbf{K} = \text{colloquium}$, $\mathbf{O} = \text{conversatorium}$, $\mathbf{P} = \text{placement/lab course}$, $\mathbf{R} = \text{project}$, $\mathbf{S} = \text{seminar}$, $\mathbf{T} = \text{tutorial}$, $\mathbf{U} = \text{exercise}$, $\mathbf{V} = \mathbf{V} = \mathbf$

= lecture

Term: **SS** = summer semester. **WS** = winter semester

Methods of grading: **NUM** = numerical grade, **B/NB** = (not) successfully completed

Regulations: (L)ASPO = general academic and examination regulations (for teaching-degree programmes), FSB = subject-specific provisions, SFB

= list of modules

Other: A = thesis, LV = course(s), PL = assessment(s), TN = participants, VL = prerequisite(s)

Conventions for the

Unless otherwise stated, courses and assessments will be held in German, assessments will be offered every semester and modules are not cre-

modules in this SFB: ditable for bonus.

Information on Should there be the option to choose between several methods of assessment, the lecturer will agree with the module coordinator on the meassessment procedures: thod of assessment to be used in the current semester by two weeks after the start of the course at the latest and will communicate this in the

customary manner.

Should a module comprise more than one graded assessment, all assessments will be equally weighted, unless otherwise stated below.

Should the assessment comprise several individual assessments, successful completion of the module will require successful completion of all

individual assessments.

In accordance with the general regulations governing the degree subject described in this module catalogue:

ASP02015

associated official publications (FSB (subject-specific provisions)/SFB (list of modules)):

This module handbook seeks to render, as accurately as possible, the data that is of statutory relevance according to the examination regulations of the degree subject. However, only the FSB (subject-specific provisions) and SFB (list of modules) in their officially published versions shall be legally binding. In the case of doubt, the provisions on, in particular, module assessments specified in the FSB/SFB shall prevail.

Every module will be described using the following form:

| Abbreviation | Module title | | | | | | | | | | |
|--------------|---------------------------------------|---------|------------------|--|-----------------------|----------------------|--------------|--|--|--|--|
| | ECTS | | Duration | (in semesters) | Method of grading | | Module level | | | | |
| | Courses | | To be spe | To be specified in the form X (y) with course type X abbreviated as specified above and number of weekly contact hours y | | | | | | | |
| | Method of as | ssessme | ent | | | | | | | | |
| | Only after su completion o | | l if applica | if applicable | | | | | | | |
| | Other prereq | uisites | if applica | if applicable | | | | | | | |
| | Participants and allocation of places | | cati- if applica | if applicable | | | | | | | |
| | Additional information | | on if applica | if applicable | | | | | | | |
| | Referred to in | n LPO I | if applica | ble (examination re | gulations for teachin | g-degree programmes) | | | | | |

| Compulsory Courses (115 ECTS credits) | | | | | | | | | | | |
|---|----------------------|------------------|------------|------------------------------------|---|-------------------|-----------------|-------------|---------------|--|--|
| Computer Science and Sustainability (90 ECTS credits) 10-I-GdP-172-m01 Fundamentals of Programming | | | | | | | | | | | |
| 10-I-GdP-172-m01 | Fundan | nentals | of Progra | ımminş | 3 | | | | | | |
| | ECTS | 5 | Duratio | n 1 semester | | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | | $V(2) + \ddot{U}(2)$ | | | | | | |
| | Method | d of ass | essment | If ann of one date). | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | |
| | Referre | d to in I | _PO I | | 49 Nr. 1 b) 69 Nr. 1 b) | | | | | | |
| 10-I-ADS-152-m01 | Algorit | hms an | d data stı | ucture | ctures | | | | | | |
| | ECTS | ECTS 10 Duration | | , | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Courses | | | | + Ü (2) | | | | _ | | |
| | Method | | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | |
| | | | | § 49 Nr. 1 a) § 69 Nr. 1 a) | | | | | | | |
| 10-I-SE-252-m01 | Softwa | re Engi | neering | • | | | | | | | |
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | | | |
| | Course | S | | V (2) · | + Ü (2) | | | | | | |
| | of da | | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). date). creditable for bonus | | | | | | |
| | Referred to in LPO I | | | | § 49 Nr. 1 b) § 69 Nr. 1 b) | | | | | | |

| 10-I-SWP-252-m01 | Practica | al cours | se in softv | vare | ' | | | | | | |
|------------------|--------------------------------|-----------|-------------|-------------------------------------|--|--|-------------|---------------|--|--|--|
| | ECTS | 10 | Duration | n | 1 semester | Method of grading (not) successfully completed | Modul level | undergraduate | | | |
| | Course | S | | P (6) | | | | | | | |
| | Method | l of ass | essment | | oractical project (Completion of a larger software project in groups (approx. 300 hours per person) and final presentation (approx. 10 minutes per group) | | | | | | |
| | Modules successfully completed | | | 10-l-P | 10-I-PP, 10-I-SE | | | | | | |
| | other prerequisites | | | | n addition, the knowledge and skills acquired in module 10-I-ADS are required. Prior attendance of this module is therefore nighly recommended. | | | | | | |
| | Referred to in LPO I | | | § 69 I | Nr. 1 d) | | | | | | |
| 10-I-PP-191-m01 | Practic | al Cour | se in Prog | rammi | ing | | | | | | |
| | ECTS | 10 | Duration | า | | Method of grading (not) successfully completed | Modul level | undergraduate | | | |
| | Course | S | | P (6) | | | | | | | |
| | Method of assessment | | | If ann of one date). | practical examination (programming exercises, approx. 240 hours) and written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). | | | | | | |
| | other prerequisites | | | | Intended learning outcomes of the following module are required: 10-I-GdP. It is therefore strongly recommended to complete this before. | | | | | | |
| | Referred to in LPO I | | | | § 49 Nr. 1 c) § 69 Nr. 1 d) | | | | | | |
| 10-I-RIÜ-191-m01 | Compu | ter Netv | works and | Inforr | nation Transmissio | n | , | | | | |
| | ECTS | 10 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | V (4) · | + Ü (2) | | | | | | |
| N | Method of assessment | | | If ann of one date) credit | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | |
| | Referre | d to in I | _PO I | § 22 l | § 22 Nr. 3 b), § 69 Nr. 1 c) | | | | | | |

| 10-l-DB-152-m01 | Databa | ses | | | | | | | | | | |
|------------------|----------------------|-----------------------|------------|-----------------------------------|---|---|-------------|---------------|--|--|--|--|
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (2) | + Ü (2) | | • | | | | | |
| | Method | i of asso | essment | If anr of on date) Lange | rritten examination (approx. 60 to 120 minutes). announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). anguage of assessment: German and/or English reditable for bonus 49 Nr. 1 b) 69 Nr. 1 b) | | | | | | | |
| | Referre | d to in L | - | | | | | | | | | |
| 04-Geo-GIS-152- | Geogra | phical I | Informatio | n Sys | tems (GIS) | | | | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | S (2) Modu | ıle taught in: Germ | an and/or English | | | | | | |
| | Method | d of ass | essment | | portfolio (approx. 20 pages, including 3 maps, 2 logs) Language of assessment: German and/or English | | | | | | | |
| 10-I-NIT-212-m01 | Sustair | Sustainability and IT | | | | | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | Courses | | | V (2) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | if anr of on date) Langu | written examination (approx. 60 to 120 minutes) if announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes pate). Language of assessment: German and/or English creditable for bonus | | | | | | | |
| 10-I-UB-212-m01 | Enviror | ımental | Monitori | ng | | | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (2) | + Ü (2) | | · | | | | | |
| | | | | if anr of on date) | ounced by the lect e candidate each (a | prox. 60 to 120 minutes) Eurer at the beginning of the course, the writt approx. 20 minutes) or an oral examination | | | | | | |

| 10-1-Nub-212-11101 | Sustaina | Sustainability Concepts and Assessment | | | | | | | | | | | |
|--------------------|-------------------------|--|--|---|--|---|-----------------------|----------------------------------|--|--|--|--|--|
| | ECTS | 5 | Duration | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | • | V (2) | + Ü (2) | | • | | | | | | |
| | Method | of ass | essment | | written examination (approx. 60 to 120 minutes) | | | | | | | | |
| | | | | | if announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination | | | | | | | | |
| | | | | | f one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candiate). reditable for bonus | | | | | | | | |
| | | | | | | | | | | | | | |
| 10-l-MuS-212-m01 | Modeling and Simulation | | | | | | | | | | | | |
| <u></u> | | 5 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| - | Courses | | Duration | | + Ü (2) | Method of grading Indinential grade | Modulitevel | undergraduate | | | | | |
| _ | | | essment | | | prox. 60 to 120 minutes) | | _ | | | | | |
| | Method | UI assi | essinent | | | turer at the beginning of the course, the written | examination may be | replaced by an oral examination | | | | | |
| | | | | | | approx. 20 minutes) or an oral examination in § | | | | | | | |
| | | | | date) | ate). | | | | | | | | |
| | | | | | editable for bonus | | | | | | | | |
| | Referred | | | _ | 22 II Nr. 3 b) | | | | | | | | |
| 10-I-EnAE-212-m01 | Energy- | Aware | Engineeri | ng | | | | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | | V (2) | + Ü (2) | | | | | | | | |
| | Method | of ass | essment | | | prox. 60 to 120 minutes) | | | | | | | |
| | | | | | if announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- | | | | | | | | |
| | | | | of on date) | | approx. 20 minutes) or an oral examination in g | groups of 2 candidate | s (approx. 15 minutes per candi- | | | | | |
| | | | | | able for bonus | | | | | | | | |
| 10-I-PRJ-252-m01 | Comput | er Scie | cience Project for Applied Sustainability | | | | | | | | | | |
| · | | 5 | Duration | | 1 semester | Method of grading numerical grade | Modul level | 1 | | | | | |
| - | Courses | | | R (3) | 1 | | 1 | | | | | | |
| | | | essment | | rt renort (annrox | 20 pages) with presentation (30-45 minutes) an | d subsequent discuss | sion on the tonic | | | | | |
| | | | Coomen | rioje | сттеротт (арртох. 2 | pages) with presentation (30 45 minutes) an | a subsequent discus. | sion on the topic | | | | | |
| Mathematics (25 EC | | | | | | | | | | | | | |
| 10-M-INF1-152-m01 | | | | | · · | | 1 | | | | | | |
| | | 10 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | | | + Ü (2) | F . P . | | | | | | | |
| | | | | | le taught in: Ü: Ge | | | | | | | | |
| | Method of assessment | | chod of assessment a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or | | | | | | | | | | |
| | | | | | | roups (groups of 2, 10 to 15 minutes) of | ate) | | | | | | |
| | | | | Language of assessment: German and/or English | | | | | | | | | |
| | | | | creditable for bonus | | | | | | | | | |

| 10-M-INF2-152- | Mather | natics | 2 for stud | ents in | Computer Science | | | - | | | | |
|---------------------|---|--|---|---------------------------|--|--|-------------|---------------|--|--|--|--|
| mo1 | ECTS | 10 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | | V (4) + $\ddot{\text{U}}$ (2) Module taught in: $\ddot{\text{U}}$: German or English | | | | | | | |
| | Method | Method of assessment | | | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) canguage of assessment: German and/or English creditable for bonus | | | | | | | |
| 10-I-OfN-252-m01 | Optimi | zation | for Sustai | nabilit | у | | | | | | | |
| | ECTS | 5 | Duratio | , | 1 semester | Method of grading numerical grade | Modul level | | | | | |
| | Course | | | | + Ü (2) | | | | | | | |
| | Method of assessment | | | b) Ora c) Wri Langu | a) Oral exam (15-30 minutes, usually) or b) Oral group exam (2 participants, each 10-15 minutes) or c) Written exam (approx. 60-120 minutes) Language of exam: German and/or English creditable for bonus | | | | | | | |
| Compulsory Elective | /es (35 E | CTS cre | edits) | | | | | | | | | |
| Interdisciplinary p | rinciples | rciples of sustainability (5 ECTS credits) | | | | | | | | | | |
| 04-Geo-EGI-212- | Introduction to Geography for Computer Scientists | | | | | | | | | | | |
| mo1 | ECTS | 5 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (3) Modu | le taught in: Germa | n and/or English | | | | | | |
| | Method of assessment | | | b) ora | ll examination of on n paper (approx. 20 | pprox. 45 minutes) or e candidate each (approx. 30 minutes) or o pages) : German and/or English | | | | | | |
| 07-3A3OE- | Plant a | nd Aniı | nal Ecolog | gy | | | , | | | | | |
| KO-152-mo1 | ECTS 6 Duratio | | | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (2) · | | | | | | | | |
| | Method of assessment | | written examination (approx. 90 minutes) creditable for bonus | | | | | | | | | |
| | Referred to in LPO I | | § 61 Nr. 4 | | | | | | | | | |

| Sustainable computer science | | | | | | | | | | | |
|------------------------------|--|-----------|---|---|-------------------|---|-------------|---|--|--|--|
| Subfield computer | science | | | | | | | | | | |
| 10-I-HWP-152-m01 | Practical cours | e in hard | ware | | | | | | | | |
| | ECTS 10 | Duration | | ı semester | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Courses | | P (6) | | | | | | | | |
| | Method of asse | essment | | portfolio: completion of approx. 3 to 10 project assignments (approx. 250 hours total) and presentation of results (approx. 10 minutes per project) | | | | | | | |
| | Referred to in L | PO I | § 22 II I | Nr. 3 b) | | | | | | | |
| 10-I-SEC-191-m01 | IT Security | | | | | | | | | | |
| | ECTS 5 | Duration | | ı semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) + Module | Ü (2) e taught in: German | n and/or English | | | | | | |
| | Method of asse | essment | If announce of one of date). Langua | unced by the lectur candidate each (ap | | of the course, the written exam r an oral examination in group | | replaced by an oral examination s (approx. 15 minutes per candi- | | | |
| 10-I-MCS-242-m01 | Introduction into Human-Computer Interaction | | | | | | | | | | |
| | ECTS 5 | Duration | | ı semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (3) + I | • • | | | | | | | |
| | Method of asse | essment | a) written examination (approx. 120 minutes) or b) presentation (30 to 60 minutes) or c) oral examination of one candidate each (30 to 60 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| | Referred to in L | PO I | § 22 N | Nr. 3 b) | | | | | | | |
| 10-l-lCG-152-m01 | Interactive Con | nputer Gr | aphics | - | | | | | | | |
| | ECTS 5 | Duration | 1 1 | ı semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) + | Ü (2) | | | | | | | |
| | Method of asse | essment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| | Referred to in L | PO I | § 22 II I | Nr. 3 b) | | | | | | | |

| 10-I-RAL-252-m01 | Digital | Digital computer systems | | | | | | | | | | |
|------------------|---------|--------------------------|----------|--|--|--|----------------|---------------------------------|--|--|--|--|
| | ECTS | 10 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (4) + | + Ü (2) | • | | | | | | |
| | Method | d of asse | | If ann | ounced by the lecti | prox. 60 to 120 minutes). urer at the beginning of the course, the written exam | ination may be | replaced by an oral examination | | | | |
| | | | | | of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | | |
| | Referre | d to in L | | | Nr. 3 b), § 69 Nr. | 1 c) | | | | | | |
| 10-I-APR-172-m01 | Advanc | ed Prog | ramming | | <i>y</i> ,, c , | | 1 | | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Courses | | | V (2) + | + Ü (2) | • | | | | | | |
| | | | | If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examinatio of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| | Referre | d to in L | .PO I | § 22 II Nr. 3 b) | | | | | | | | |
| 10-I-KT-191-m01 | Compu | tational | Complex | ity | | | | | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | | |
| | Course | | | V (2) + | | | | | | | | |
| | | | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | | |
| | Referre | d to in L | PO I | § 22 | Nr. 3 b) | | | | | | | |

| 10-I-KD-191-m01 | Crypto | graphy | and Data | Securi | ty | | | | | | |
|-----------------|----------------------|---------------|------------|-------------------------------------|--|-------------------------------------|-------------|---------------|--|--|--|
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | V (2) - | + Ü (2) | · | • | • | | | |
| | Method | d of ass | essment | If ann of one date). Langu | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English Assessment offered: In the semester in which the course is offered and in the subsequent semester creditable for bonus | | | | | | |
| | Referred to in LPO I | | | § 22 l | l Nr. 3 b) | | | | | | |
| 10-l-AR-152-m01 | Automa | ation ar | nd Control | Techn | ology | | | | | | |
| | ECTS | 8 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | V (4) - | + Ü (2) | | | | | | |
| | Method of assessment | | | If ann of one date). Langu | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an ora of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minudate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in LPO I | | | § 22 II Nr. 3 b) | | | | | | | |
| 10-I-BS-242-m01 | Operat | _ | | | | | | | | | |
| | ECTS Course | 5 S | Duration | | 1 semester + Ü (2) | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Method of assessment | | | If ann of one date). Langu | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in LPO I | | | § 22 l | l Nr. 3 b), § 69 l Nr | . 1 c) | | | | | |

| 10-I-RAK-152-m01 | Computer Arc | hitecture | | | | | | | | |
|------------------|-------------------------------------|-------------|---|---|--|-------------|---------------|--|--|--|
| | ECTS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) | + Ü (2) | | | | | | |
| | Method of as | sessment | If anr of on date) Lang | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in | LPO I | § 22 | II Nr. 3 b) I Nr. 1 c): Rechnerar | chitektur | | | | | |
| 10-I-RK-212-m01 | Control Princ | iples of Mo | dern (| Communication Sys | tems | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) | + Ü (2) | · | | | | | |
| | | | if anr of on date) Lang credi | written examination (approx. 60 to 120 minutes) f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in | LPO I | § 22 | II Nr. 3 b) | | | | | | |
| 10-l-Gl-152-m01 | Selected Basics of Computer Science | | | | | | | | | |
| | ECTS 5 | Duratio | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (4) | $V(4) + \ddot{U}(2)$ | | | | | | |
| | Method of as | sessment | If anr of on date) Lang | nounced by the lecti e candidate each (a | orox. 60 to 120 minutes). orox. 60 to 120 minutes). orer at the beginning of the course, the written exa opprox. 20 minutes) or an oral examination in group oreginal examination in g | | | | | |
| 10-l-LOG-152-m01 | Logic for info | rmatics | | | | | | | | |
| | ECTS 5 | Duratio | n | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | V (2) | + Ü (2) | | | | | | |
| | | | If anr of on date) Lang credi | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | |
| | Referred to in | LPO I | § 22 | II Nr. 3 b) | | | | | | |

| 10-l-Tl-242-m01 | Theory o | of Comp | utation | | | | | | | | | |
|-------------------|------------------------------|----------|----------|--|---|---------------------------------|-------|-------------|---------------|--|--|--|
| | ECTS : | 10 | Duration |) | 1 semester | Method of grading numerical g | grade | Modul level | undergraduate | | | |
| | Courses | | | V (4) | + Ü (2) | | | - | | | | |
| | Method | of asses | ssment | If ann of on date) | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). date). creditable for bonus | | | | | | | |
| | Referred | to in LP | 0 1 | § 49 | § 49 Nr. 1 a) § 69 Nr. 1 a) | | | | | | | |
| 10-I-AGT-152-m01 | Algorithmic Graph Theory | | | | | | | | | | | |
| | ECTS 5 Duration | | |) | 1 semester | Method of grading numerical g | grade | Modul level | undergraduate | | | |
| | Courses | , | | V (2) | + Ü (2) | , | | • | | | | |
| | Method | of asses | ssment | If anr of on date) Lange | vritten examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). It is also because of assessment: German and/or English creditable for bonus | | | | | | | |
| | Referred | to in LP | 1 0 | § 22 | I Nr. 3 b) | | | | | | | |
| 10-l-EidO-252-m01 | Introduction to Optimization | | | | | | | | | | | |
| | ECTS ! | 5 | Duration |) | 1 semester | Method of grading numerical g | grade | Modul level | | | | |
| | Courses | | | | + Ü (2) ıle taught in: Germ | an or English | | | | | | |
| | Method | of asses | ssment | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of exam: German and/or English creditable for bonus | | | | | | | | |
| 10-I-MSE-252-m01 | Model-b | ased Sy | stems E | ngine | ering | | | | | | | |
| | ECTS 4 | 5 | Duration |) | 1 semester | Method of grading numerical g | grade | Modul level | | | | |
| | Courses | | | V (2) | + Ü (2) | | | | | | | |
| | Method of assessment | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). creditable for bonus | | | | | | | | |
| | Referred to in LPO I | | | § 22 l | l Nr. 3 b) | | | | | | | |

| 10-I-SEM1-152-m01 Seminar - Selected Topics in Computer Science 1 | | | | | | | | | | | | |
|---|----------------------|-----------|-----------|--|--|-------------------|------------------------|----------------------------|----------------------------------|--|--|--|
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | 5 | • | S (2) | • | | | | | | | |
| | Method | of ass | essment | pic fr | om the field of comp | | | ox. 30 to 45 minutes) wit | h subsequent discussion on a to- | | | |
| | Referred | d to in l | PO I | § 22 l | 3 22 II Nr. 3 b) | | | | | | | |
| Subfield Aerospace | Comput | er Scie | nce | | | | | | | | | |
| 10-I-LFS-172-m01 | Introdu | ction to | Aviation | Syste | ms | | | | | | | |
| | ECTS 5 Duration | | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Courses | | | V (2) | + Ü (1) | | | | | | | |
| | | | essment | If ann of on credit | ounced by the lectu e candidate each (ap able for bonus | | | ten examination may be | replaced by an oral examination | | | |
| | Referred | | | | § 22 II Nr. 3 b) | | | | | | | |
| 10-I-RFS-172-m01 | | ction to | Space S | | | | | | | | | |
| | ECTS 5 Duratio | | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Courses | - | | | + Ü (1) | | | | | | | |
| | Method of assessment | | | If ann | written examination (approx. 60 to 120 minutes) If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 30 minutes). creditable for bonus | | | | | | | |
| | Referred to in LPO I | | | § 22 II Nr. 3 b) | | | | | | | | |
| 10-LURI-HWZ-252- | Hardwa | re-orie | nted prog | ramm | ing and Fundamenta | als Avionics | | | | | | |
| mo1 | ECTS | 10 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | | | | |
| | Courses | 5 | | V (4) | + Ü (2) + P (2) | | | | | | | |
| | Method of assessment | | | hours | n examination (app each), weighted 1:1 able for bonus | | l practical examinatio | on in form of approx. 6 pi | rogramming exercises (approx. 4 | | | |
| | Referred | d to in l | _PO I | § 22 l | l Nr. 3 b) | | | | | | | |
| 10-InNa-LR- | Aerospa | | | | | | | | | | | |
| LA-212-m01 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Courses | - | | ` ′ | + P (2) | | | , | | | | |
| | Method of assessment | | | Solving of approx. 6 practical assignments (approx. 4 hours each) Assessment offered: Once a year, summer semester | | | | | | | | |

| Subfield Mathemat | ics | | | | | | | | | |
|-------------------|--|----------------------|------------|-------------------------------------|--|--|-------------|---------------|--|--|
| 10-M-DI- | Introdu | ction to | Discrete | Math | ematics for student | s of other subjects | | | | |
| Maf-152-mo1 | ECTS | 10 | Duratio | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (4) | $J'(4) + \ddot{U}(2)$ | | | | | |
| | | | | b) ora c) ora Langu credit | a) written examination (approx. 90 to 180 minutes, usually chosen) or b) oral examination of one candidate each (15 to 30 minutes) or c) oral examination in groups (groups of 2, 10 to 15 minutes per candidate) Language of assessment: German and/or English creditable for bonus | | | | | |
| 10-M-NUM1af-152- | Numeri | ical Mat | hematics | 1 for s | tudents of other su | bjects | | | | |
| mo1 | ECTS | 10 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | | | . ,. | + Ü (2) | | | | | |
| | | Method of assessment | | | n) written examination (approx. 90 to 180 minutes, usually chosen) or n) oral examination of one candidate each (15 to 30 minutes) or n oral examination in groups (groups of 2, 10 to 15 minutes per candidate) anguage of assessment: German and/or English reditable for bonus | | | | | |
| 10-M-STO-1af-152- | Stochastics 1 for students of other subjects | | | | | | | | | |
| mo1 | ECTS 10 Duration | | | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | S | _ | V (4) | $V(4) + \ddot{U}(2)$ | | | | | |
| | Method | d of ass | essment | b) ora c) ora Langu | al examination of on all examination in gro | pprox. 90 to 180 minutes, usually chosen) or le candidate each (15 to 30 minutes) or pups (groups of 2, 10 to 15 minutes per candidate) : German and/or English | | | | |
| 10-M-DGLaf-152- | Ordina | ry Diffe | rential Eq | uation | s for students of ot | her subjects | | | | |
| mo1 | ECTS | 10 | Duratio | า | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (4) | + Ü (2) | | | | | |
| | Method of assessment | | | b) ora c) ora Langu | al examination of on Il examination in gro | pprox. 90 to 180 minutes, usually chosen) or le candidate each (15 to 30 minutes) or oups (groups of 2, 10 to 15 minutes per candidate) : German and/or English | | | | |

| 10-M-OML-222- | Optimi | Optimization for Machine Learning | | | | | | | | | | | |
|------------------|----------------------|-----------------------------------|------------|---|---|---|---------------------------------|-------------|---|--|--|--|--|
| mo1 | ECTS | 10 | Duration | l | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | | + Ü (2) le taught in: Germa | an and/or English | | | | | | | |
| | Method | d of ass | | b) ora c) ora Langu Asses | l examination of o l examination in grage of assessmen | ne candidate each (15 roups (groups of 2, 10 t: German and/or Eng | to 15 minutes per cand glish | | emester | | | | |
| Subfield Mathema | tics | | | | | | | | | | | | |
| 10-I-DM-252-m01 | Data S | cience | | | | | | | | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (2) - | + Ü (2) | | | | | | | | |
| | | | | If ann of one date). Langu credit | ounced by the lect e candidate each (a | | of the course, the writte | | replaced by an oral examination s (approx. 15 minutes per candi- | | | | |
| 10-I-TML-222-m01 | | | hine Learr | ing | | | _ | | , | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | S | | V (2) - Modu | le taught in: German and/or English | | | | | | | | |
| | Metho | d of ass | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an ora of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minudate). Language of assessment: German and/or English creditable for bonus | | | | | | | | | |
| | Referre | d to in I | PO I | § 22 l | Nr. 3 b) | | | | | | | | |
| 10-I-DL-222-m01 | | earning | | | | | | | | | | | |
| | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | | | V (2) - | | | | | | | | | |
| | Method of assessment | | | If ann of one date). | ounced by the lect candidate each (a | urer at the beginning | of the course, the writte | | replaced by an oral examination s (approx. 15 minutes per candi- | | | | |
| | Referred to in LPO I | | | § 22 l | l Nr. 3 b) | | | | | | | | |

| 10-I-NLP-222-m01 | Natural Language Processing | | | | | | | | | | |
|--------------------|-----------------------------|----------|-----------|---|--|---------------------------|----------------|-------------|---------------|--|--|
| | ECTS | 5 | Duration | | 1 semester | Method of grading nu | ımerical grade | Modul level | undergraduate | | |
| | Course | S | • | | + Ü (2) | | | • | | | |
| | | | | | Module taught in: German and/or English | | | | | | |
| | Method | d of ass | essment | If ann of one date) Langu | vritten examination (approx. 60 to 120 minutes). f announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candilate). anguage of assessment: German and/or English reditable for bonus | | | | | | |
| | Referre | d to in | LPO I | § 22 l | l Nr. 3 b) | | | | | | |
| 10-I-CV-222-m01 | Computer Vision | | | | | | | | | | |
| | ECTS | 5 | Duration | า | 1 semester | Method of grading nu | ımerical grade | Modul level | undergraduate | | |
| | Course | S | | V (2) + Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | written examination (approx. 60 to 120 minutes). If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candidate). Language of assessment: German and/or English creditable for bonus | | | | | | | |
| | Referre | d to in | LPO I | § 22 l | § 22 II Nr. 3 b) | | | | | | |
| Computer science f | for susta | inabilit | y | | | | | | | | |
| Geography with a f | ocus on | climate | (20 ECTS | credit | ts) | | | | | | |
| 04-Geo-SPG1-152- | Specia | l Proble | ms of Phy | /sical (| Geography 1 (Earl | th System: Man and Enviro | nment) | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading nu | ımerical grade | Modul level | undergraduate | | |
| | Courses | | | V (2) Module taught in: German and/or English | | | | | | | |
| | Method | d of ass | essment | written examination (approx. 45 minutes) Language of assessment: German and/or English | | | | | | | |
| | Referre | d to in | LPO I | § 66 l | Nr. 2 | | | | | | |

| 04-Geo-MPG1-232- | Method | Methods of Physical Geography 1 | | | | | | | | | |
|------------------|---------------------------------------|---------------------------------|------------|---|---|----------------------|---|----------------|--|--|--|
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method | d of ass | essment | b) por c) terr | a) presentation (approx. 30 minutes) or b) portfolio (approx. 20 pages, including 3 maps, 2 logs) or c) term paper (approx. 20 pages) Language of assessment: German and/or English | | | | | | |
| | Referre | d to in l | LPO I | § 66 I | Nr. 2 | | | | | | |
| 04-Geo-PPG-152- | Applied | d physic | cal geogra | phy | | | | | | | |
| mo1 | ECTS | 10 | Duration | 1 | 2 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | S (4) Modu | S (4) Module taught in: German and/or English | | | | | | |
| | Method of assessment | | | b) presentation (approx. 30 minutes) or c) term paper (approx. 20 pages) Language of assessment: German and/or English Assessment offered: Once a year, summer semester | | | | | | | |
| | Participants and allocation of places | | | max. 20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken into account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will be maintained and places re-allocated by lot as they become available. | | | | | | | |
| 10-I-AGGN-211- | Selecte | ed Basic | s of Susta | ainabil | ity in Geography | | | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | |
| | Course | S | | V (2) + Ü (2) Course type: alternatively S (2) | | | | | | | |
| | Method | d of ass | | b) terrif ann of one date). | m paper (10 to 15 pa ounced by the lectu e candidate each (ap | rer at the beginning | on (30 to 45 minutes) with subs of the course, the written exam r an oral examination in groups | ination may be | ion replaced by an oral examination s (approx. 15 minutes per candi- | | |

| Geography with a f | ocus on | remote | sensing (| 20 EC | TS credits) | | | | | | |
|--------------------|---|----------|-----------|---|---|-----------------------------------|-------------|---------------|--|--|--|
| 04-Geo-FER- | Introdu | ction to | Geograp | hical | Remote Sensing | | | | | | |
| NE-152-mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | V (2) + T (2) Module taught in: German and/or English | | | | | | | |
| | Method | d of ass | essment | Langi | written examination (approx. 45 minutes) Language of assessment: German and/or English Creditable for bonus | | | | | | |
| | Referre | d to in | LPO I | § 66 | 66 I Nr. 2 | | | | | | |
| o4-Geo-FER- | Applica | ations o | f Remote | Sensi | ng in Geography | | , | | | | |
| NA-152-m01 | ECTS 5 Duratio | | | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Course | S | | | + T (2) ıle taught in: Germa | n and/or English | | | | | |
| | Method | d of ass | essment | written examination (approx. 45 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | |
| 04-Geo-MFD-152- | Methods for Analysing Remote Sensing Data | | | | | | | | | | |
| mo1 | ECTS | 5 | Duration | ı | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | | S (2) + T (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | presentation (approx. 45 minutes) with related term paper (approx. 15 pages) Language of assessment: German and/or English Assessment offered: Once a year, winter semester | | | | | | | |
| | Particip cation | | | max. 20 places. Should the number of applications exceed the number of available places, places will be allocated according to the number of subject semesters with the individual student's progression through their degree programme being taken it to account. Among applicants with the same number of subject semesters, places will be allocated by lot. A waiting list will maintained and places re-allocated by lot as they become available. | | | | | | | |
| 04-Geo-MPG1-232- | Method | ds of Ph | ysical Ge | ograp | hy 1 | | , | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | | |
| | Courses | | | Ü (2) Module taught in: German and/or English | | | | | | | |
| | Method of assessment | | | a) presentation (approx. 30 minutes) or b) portfolio (approx. 20 pages, including 3 maps, 2 logs) or c) term paper (approx. 20 pages) Language of assessment: German and/or English | | | | | | | |
| | Referred to in LPO I | | | § 66 | l Nr. 2 | | | | | | |

| 10-l-AGGN-211- | Selecte | elected Basics of Sustainability in Geography | | | | | | | |
|----------------|---------|---|----------|---------------------------------------|---|-----------------------|---|-----------------|--|
| mo1 | ECTS | 5 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate |
| | Courses | | | V (2) - Cours | + Ü (2) e type: alternatively | S (2) | | , | |
| | Method | d of asse | | b) terr if ann of one date). | m paper (10 to 15 pagounced by the lecture candidate each (ap | er at the beginning o | n (30 to 45 minutes) with subse of the course, the written examination in groups | nation may be r | on eplaced by an oral examination (approx. 15 minutes per candi- |

| Biology (19 ECTS | credits) | | | | | | | | | | |
|------------------|-----------------------|---------|----------------|---|---|--|--|---|--|--|--|
| 07-SQF-CB-171- | Compu | tationa | l Biology | - from | Genom to Ecosyste | m | | | | | |
| mo1 | | 5 | Duratio | | 1 semester | Method of grading nume | rical grade | Modul level | undergraduate | | |
| | Course | | | S (2) | | | | | | | |
| | Method of assessifier | | | | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German and/or English Assessment offered: Once a year | | | | | | |
| | Particip cation o | | nd allo- es | Stude Shou chelo locate degree cation availa quota form conceleast A wai Select ment rage; cludin lows: dits (appli ding the sate sters lot. Q Shou | Id the number of apents of the Bachelo Id the module be usur's degree subject I ed to students of the subjects Comput noriented subject I able in one quota esta. Should there be, regulation for the corned will be allocation process group it in process group it in process group it in a to this third ranking or otherwise by lot. It in process group or of ECTS credits a ame number of ECT of the respective apuota 3 (25 % of pla Id the module be usured. | sed in other subjects, there was alload in other subjects, there was alload in other subjects, there was alload in other subjects at alload in the same procedure. It component of the respective intained and places re-alloca 1 (95%): Places will primarily applicants will be ranked action, Physik (Physics), Mathe ill be ranked, firstly, according to third ranking will be calculated, Among applicants with the 2 (5%): Places will be allocated already achieved in modules is credits achieved, places working applicant; among applicants working applicant; among applicants working in modules is credits achieved, places working among applicants working in modules. So credits achieved, places working applicant; among applicants working in modules is credits achieved, places working in modules. So credits achieved, places working in modules in modules in modules. So credits achieved, places working in modules in modules in modules in modules. So credits achieved, places working in modules in modules in modules in modules. So credits achieved, places working in modules in modules in modules in modules. So credits achieved, places working in modules in modules in modules in modules in modules in modules. So credits achieved, places working in modules in modul | Biology) with 180 ECTS of will be two quotas: 95% CTS credits and 5% of p Biologie (Biology) with athematik (Mathematics y to students of other 'itions, the remaining plant, several courses with onent. In this case, place in this procedure, applicated as they become avay be allocated according to the number dies or of all module commatik (Mathematics)) and their total number of Eted as the sum of these same ranking, places we ted according to the folymodule components of ill be allocated by lot. On with the same number of the same number of with the same number of the same numbe | credits will be given by the second of places will be places (a minimum of the second | ven preferential consideration. e allocated to students of the Bam of one place in total) will be alland to students of the Bachelor's ECTS credits, as part of the applicts). Should the number of places ated to applicants from the other mber of places, there will be a units of a module component that are y have successfully completed at | | |

| 07-M-BST-152-m01 | Mather | matical | Biology a | nd Bio | statistics | 1 | | | | | | | | |
|-------------------|----------------------|----------|-----------|---|---|-----------------------|-----------------|---|---------------|--|--|--|--|--|
| Î | ECTS | 4 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | | |
| | | | | V (2) + | V (2) + Ü (2) | | | | | | | | | |
| | Method of assessment | | | | written examination (approx. 60 minutes) creditable for bonus | | | | | | | | | |
| 07-S1-IP1-152-m01 | Interdi | sciplina | ry Projec | t I | I | | | | | | | | | |
| | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | | R (5) Module taught in: German and/or English | | | | | | | | | | |
| | Method of assessment | | | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. creditable for bonus | | | | | | | | | | |
| | other prerequisites | | | Pleas | e consult with course | e advisory service in | advance. | Please consult with course advisory service in advance. | | | | | | |

| 07-4S1E- | Evolutionary Ecology GCTC | | | | | | | | | | | |
|------------|----------------------------|------------|---|--|---|--|--|--|--|--|--|--|
| VO-171-mo1 | ECTS 5 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Courses | | Ü (4) | + V (1) | | | | | | | | |
| | Method of a | assessment | b) log c) ora d) ora e) pre f) pra- maxir Stude Langu | (approx. 10 to 20 p l examination of one l examination in gro sentation (approx. 2 ctical examination (num of 4 hours). | on of one candidate each (approx. 30 minutes) or on in groups of up to 3 candidates (approx. 20 minutes per candidate) or approx. 20 to 30 minutes) or nation (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a purs). Informed about the method and length of the assessment prior to the course. Informed about the method and length of the assessment prior to the course. | | | | | | | |
| | Participants cation of pla | | Stude Shoul chelo locate degre cation availa quota form conce least A wai Selec ments rage s cludir lows: dits (d applied ding t king o Selec numb the sa sters lot. Q Shoul | Id the number of appents of the Bachelor' and the module be user's degree subject Bed to students of the esubjects Computation on the content of the esubjects Computation on the content of the esubject Bed to students of the content of the conten | s degree subject Bioled in other subjects, siologie (Biology) with a Bachelor's degree stional Mathematics at iology (as well as pot ceed the number of a within one module courses of one module ed in the same proce omponent of the respitained and places rea (95%): Places will be ranked, firstly, and, secondly, accorthird ranking will be conditionally applicants will be conditionally applicants will be conditionally applicants will be conditionally according the conditionally applicants will be conditionally applicants will be conditionally applicants will be conditionally according applicants will be conditionally according applicant; among applicant; among applicant; among applicant; among applicant; lottery. | there will be two quotast 180 ECTS credits and 5 ubject Biologie (Biology and Mathematik (Mathematially to students of component, several course component. In this case dure. In this procedure, sective module will be grallocated as they becommarily be allocated acked according to the number studies or of all modern studies or of all modern to their averageding to their total number alculated as the sum of ith the same ranking, plants with the same numbers will be allocated by cants with the same numbers degree subject Biological subject Bi | ECTS credits will be gives: 95% of places (a minimul) with 60 ECTS credits matics), each with 180 other 'importing' subjecting places will be alloces with a restricted nurse, places on all courses applicants who alread iven preferential considue available. cording to the applicant unber of ECTS credits the tics)) at the time of apple grade weighted accorder of ECTS credits achief these two rankings, at laces will be allocated the following quotas: Contents of the Faculty of Ey lot. Quota 2 (25% of mber of subject semes of the subject semes of the subject semes of the subject semes of subject semes of the subjec | ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places ated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at | | | | |

| 07-4S1NAT-171- | Ecology and Nature Conservation | | | | | | | | | | | |
|----------------|---------------------------------------|----------|----------|---|--|---|--|---|--|--|--|--|
| mo1 | ECTS | 5 | Duration | | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Course | | | Ü (4) + S (1) | | | | | | | | |
| | Method | d of ass | | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| | Participants and allocation of places | | | Should the module be use thelor's degree subject located to students of the degree subjects Computation-oriented subject available in one quota equota. Should there be, form regulation for the concerned will be allocateast one other module. A waiting list will be mand Selection process group ments. For this purpose rage grade of all assess cluding Chemie (Chemis lows: First, applicants with dits (qualitative ranking applicants' position in a ding to this third ranking king or otherwise by lot. Selection process group number of ECTS credits the same number of ECT sters of the respective a lot. Quota 3 (25 % of plates) available. | or's degree subject Biolosed in other subjects, Biologie (Biology) with the Bachelor's degree stational Mathematics as Biology (as well as pot exceed the number of a within one module concurses of one module ted in the same proce component of the respintained and places red (95%): Places will be applicants will be ranked, firstly, and secondly, according third ranking will be one third ranking will be already achieved in more street of (5%): Places will be already achieved in more street achieved, play pplicant; among applicant; among applicates): lottery. | ogie (Biology) with 180 there will be two quota 180 ECTS credits and ubject Biologie (Biologind Mathematik (Mathentially to students of pplications, the remain mponent, several cour component. In this cast dure. In this procedure ective module will be eallocated as they becommarily be allocated as ked according to their averaging to their total number alculated as the sum of the same ranking, pallocated according to the same ranking, pallocated according to their averaging to the same ranking, pallocated according to the same ranking to the same | o ECTS credits will be given as: 95% of places (a minimusy) with 60 ECTS credits ematics), each with 180 other 'importing' subjecting places will be allocated with a restricted nurse, places on all courses e, applicants who alread given preferential considered according to the applicant dule components in the atics)) at the time of applicated ber of ECTS credits achies of these two rankings, as places will be allocated of the following quotas: Conents of the Faculty of Educated of the following contact contact of the following contact conta | ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at | | | | |

| 07-SQF-PBD-152- | Principles of Image Data Processing | | | | | | | | | | |
|-----------------|-------------------------------------|-------------------------|--|--|--|--|--|--|--|--|--|
| mo1 | ECTS 2 | 2 Duratio | ion 1 semester Method of grading (not) successfully completed Modul level undergraduate | | | | | | | | |
| | Courses | · | V (0.5) + Ü (0.5) Module taught in: German and/or English | | | | | | | | |
| | Method | of assessment | written examination or practical examination (approx. 30 minutes) Language of assessment: German and/or English creditable for bonus | | | | | | | | |
| | Participa cation of | nts and allo- places | 20 places. Should the number of applications exceed the number of available places, places will be allocated as follows: Students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits will be given preferential consideration. Should the module be used in other subjects, there will be two quotas: 95% of places will be allocated to students of the Bachelor's degree subject Biologie (Biology) with 180 ECTS credits and 5% of places (a minimum of one place in total) will be allocated to students of the Bachelor's degree subjects Biologie (Biology) with 60 ECTS credits and to students of the Bachelor's degree subjects Computational Mathematics, and Mathematics, acach with 180 ECTS credits, as part of the application-oriented subject Biology (as well as potentially to students of other 'importing' subjects). Should the number of places available in one quota exceed the number of applications, the remaining places will be allocated to applicants from the other quota. Should there be, within one module component, several courses with a restricted number of places, there will be a uniform regulation for the courses of one module component. In this case, places on all courses of a module component that are concerned will be allocated in the same procedure. In this procedure, applicants who already have successfully completed at least one other module component of the respective module will be given preferential consideration. A waiting list will be maintained and places re-allocated as they become available. Selection process group 1 (55%): Places will primarily be allocated according to the applicants' previous academic achievements. For this purpose, applicants will be ranked according to the number of ECTS credits they have achieved and their average grade of all assessments taken during their studies or of all module components in the subject of Biologie (Biology) (excluding Chemie (Chemistry), Physik (Physics), Mathematik (Mathematics)) at the time of application. This will be done as follows | | | | | | | | |

| 07-SQF-STAT5-182- | Statisti | cs 5 | | | | |
|-------------------|----------------------|------|----------|--|--|---|
| mo1 | ECTS | 5 | Duration | l | 1 semester | Method of grading (not) successfully completed Modul level undergraduate |
| | Courses | S | | Ü (3) Modu | le taught in: Germ | rman and/or English |
| | | | | b) log c) ora d) ora e) pre f) prac maxin Stude Langu credit | (approx. 10 to 20 l examination of 0 l examination in g sentation (approx ctical examination num of 4 hours). Ints will be informed age of assessmentable for bonus | one candidate each (approx. 30 minutes) or groups of up to 3 candidates (approx. 20 minutes per candidate) or ox. 20 to 30 minutes) or on (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a |
| | Particip cation o | | | Stude Shoul chelo locate degre catior availa quota form reconce least A wait Select ments rage geludir lows: dits (dapplied ding the sasters of lot. Qi Shoul shoul chelo sasters of lot. Qi Shoul chelo sasters of lot. | d the number of a conts of the Bachelo d the module be used to students of the e subject of the subjects. Computation of the content of the c | up 2 (5%): Places will be allocated according to the following quotas: Quota 1 (50 % of places): total ts already achieved in modules/module components of the Faculty of Biology; among applicants with ECTS credits achieved, places will be allocated by lot. Quota 2 (25 % of places): number of subject semestapplicant; among applicants with the same number of subject semesters, places will be allocated by |

| 07-4S1M- | Special Bioinformatics 1 | | | | | | | | | | | |
|------------|--------------------------|----------|---------|--|---|--|---|--|---|--|--|--|
| Z6-152-mo1 | ECTS | 5 | Duratio | n | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | Courses | | | V (1) + Ü (5) | | | | | | | |
| | Method | d of ass | essment | | Log (approx. 10 to 20 pages) | | | | | | | |
| | | | | | Language of assessment: German or English creditable for bonus | | | | | | | |
| | | oants ar | | Stude Shoul chelo locate degree cation availa quota form I conce least A wair Select ments rage geludir lows: dits (dapplied ding the sasters lot. Q Shoul | ents of the Bachelo Id the module be units of the end of the end to students of the end to students of the end to subject able in one quota end. Should there be, regulation for the corned will be allocation process group it in the end to the | or's degree subject Biologiesed in other subjects, Biologie (Biology) with the Bachelor's degree stational Mathematics as Biology (as well as pot exceed the number of as within one module coourses of one module ated in the same proce component of the respintained and places red 1 (95%): Places will be applicants will be ranked, firstly, and secondly, according the first of the ranking will be considered and applicants will be considered and secondly, according the first of the ranking will be considered and applicants will be considered and applicant; among applicant; among applicant; among applicants; lottery. | an 180 ECTS credits and 5% of planubject Biologie (Biology) with 6 and Mathematik (Mathematics) tentially to students of other 'implications, the remaining planuponent, several courses with component. In this case, place dure. In this procedure, applications will be given prevallocated as they become avairimarily be allocated according to the number of eir studies or of all module compathematik (Mathematics)) at according to their average graded ding to their total number of EC calculated as the sum of these to the same ranking, places with the same ranking, places with the same number of acces will be allocated by lot. Quants with the same number of lor's degree subject Biologie (Both students) and the same number of lor's degree subject Biologie (Both same subject Biologie | redits will be given of places will be aces (a minimum to ECTS credits are ach with 180 aporting' subjects will be allocated nurs on all courses ants who already afterential considerential considerential considerents in the the time of appweighted according to the allocated action of ECTS credits the the time of appweighted according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved according to the faculty of Buota 2 (25 % of points achieved achieved according to the faculty of Buota 2 (25 % of points achieved achieve | ren preferential consideration. E allocated to students of the Bam of one place in total) will be almost of the Bam of one place in total) will be almost of the Bachelor's ECTS credits, as part of the applits). Should the number of places ated to applicants from the other of places, there will be a unit of a module component that are y have successfully completed at deration. Its' previous academic achievency have achieved and their avesubject of Biologie (Biology) (explication. This will be done as folding to the number of ECTS creaved (quantitative ranking). The old places will be allocated accordance according to the qualitative rankuota 1 (50 % of places): total | | | |

| 07-5S2M- | Specific Bioinformatics 2 | | | | | | | | | | | |
|------------|---------------------------|-----------------------|---|---|--|--|--|---|--|--|--|--|
| Z3-152-m01 | ECTS 10 | Duratio | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | |
| | Courses | | | V (1) + Ü (7) Module taught in: German and/or English | | | | | | | | |
| | Mothod of | accoccmont | | | | tos) or | | - | | | | |
| | Method of | assessment | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. Language of assessment: German and/or English creditable for bonus | | | | | | | | | |
| | Participant cation of p | ts and allo- laces | 16 pla Shou Stude Shou chelo locate degre cation availa quota form conce least A wai Selec ment rage g cludii lows: dits (i appli king of Selec numb the sa sters lot. Q | ld the number of appents of the Bachelor' ld the module be user's degree subject Bed to students of the esubjects Computanoriented subject Bable in one quota exa. Should there be, we regulation for the coerned will be allocated one other module coerned will be main stion process group as For this purpose, as grade of all assessming Chemie (Chemist First, applicants will qualitative ranking) cants' position in a to this third ranking. For otherwise by lot. It in process group as or of ECTS credits all ame number of ECTS of the respective appuota 3 (25 % of place ld the module be us | s degree subject Bioled in other subjects, iologie (Biology) with a Bachelor's degree stional Mathematics a iology (as well as poteed the number of a within one module courses of one module ed in the same proceomponent of the respitained and places rea (95%): Places will be ranked, firstly, and, secondly, according the ranking will be conditionally applicants will be conditionally applicant; among applicant; among applicant; among applicant; among applicant; lottery. | logie (Biology) with 180 there will be two quota 180 ECTS credits and 9 ubject Biologie (Biology and Mathematik (Mathematic tentially to students of applications, the remain mponent, several course component. In this case dure. In this procedure, bective module will be geallocated as they becommarily be allocated active according to the new according to their average ding to their total numbers alculated as the sum of the same ranking, publicated according to the same ranking publicated according to the | as: 95% of places will be 5% of places (a minimuly) with 60 ECTS credits ematics), each with 180 other 'importing' subjecting places will be allocated nurses, applicants who alread given preferential considered available. Ecording to the applicant umber of ECTS credits the tics) at the time of applicate of ECTS credits achief these two rankings, and laces will be allocated the following quotas: Contents of the Faculty of Entry lot. Quota 2 (25% of Ember of Subject semestimes) | ven preferential consideration. e allocated to students of the Ba- m of one place in total) will be al- and to students of the Bachelor's ECTS credits, as part of the appli- cts). Should the number of places cated to applicants from the other mber of places, there will be a uni- s of a module component that are y have successfully completed at | | | | |

| 07-4BFMZ4-152- | Bioinfo | ormatics | for Adva | nced Students | | | | | | |
|----------------|----------------------|----------------------|----------|---|---|--|---|---|--|--|
| mo1 | ECTS | 5 | Duration | | 1 semester | Method of grading numerical grade | Modul level | undergraduate | | |
| | Course | <u>s</u> | - | V (1) - | + Ü (5) | | | | | |
| | Method of assessment | | | Log (approx. 10 to 20 pages) creditable for bonus | | | | | | |
| | | pants an of place | | Stude Shou chelo locate degree cation availa quota form conceleast A wai Select ment: rage gent cluding the sasters lot. Q Shou | Id the number of ents of the Bachel ld the module be or's degree subjected to students of the subjects Componential subjects and the regulation for the erned will be allocone other module ting list will be motion process grous. For this purpose grade of all asses ng Chemie (Chem First, applicants qualitative ranking cants' position in to this third ranking or otherwise by location process grouper of ECTS credited ame number of ECTS credited and 125 % of pld the module be | up 2 (5%): Places will be allocated according to the already achieved in modules/module compone CTS credits achieved, places will be allocated by lapplicant; among applicants with the same num | CTS credits will be given 5% of places will be so of places (a minimum with 60 ECTS credits a places), each with 180 her 'importing' subjects with a restricted nurplaces on all courses pplicants who alreadien preferential consider available. Ording to the applicant be components in the essential consider of ECTS credits the components in the essential consider of ECTS credits achieves two rankings, arrows will be allocated and the following quotas: Onts of the Faculty of Blot. Quota 2 (25 % of ber of subject semestimes) | ren preferential consideration. e allocated to students of the Bam of one place in total) will be allocated to students of the Bachelor's ECTS credits, as part of the applities). Should the number of places ated to applicants from the other of places, there will be a unition of a module component that are y have successfully completed at deration. Its' previous academic achievency have achieved and their avesubject of Biologie (Biology) (exlication. This will be done as folding to the number of ECTS creeved (quantitative ranking). The of places will be allocated accordance to the qualitative ranking): number of subject semeters, places will be allocated by | | |

| 07-4BFN- | Basics in Ecology of Animals | | | | | | | | | | | |
|-------------|--------------------------------|----------|---|--|--|---|--|--|--|--|--|--|
| V03-152-m01 | ECTS 5 | Duratio | | Method of grading numerical grade | Modul level | undergraduate | | | | | | |
| | Courses | | a) written examination (approx. 45 to 60 minutes) or b) log (approx. 10 to 20 pages) or c) oral examination of one candidate each (approx. 30 minutes) or d) oral examination in groups of up to 3 candidates (approx. 20 minutes per candidate) or e) presentation (approx. 20 to 30 minutes) or f) practical examination (on average approx. 2 hours; time to complete will vary according to subject area but will not exceed a maximum of 4 hours). Students will be informed about the method and length of the assessment prior to the course. creditable for bonus | | | | | | | | | |
| | Method of as | sessment | | | | | | | | | | |
| | Participants a cation of place | | Students of the Bach Should the module be chelor's degree subjects Come cation-oriented subjects available in one quot quota. Should there I form regulation for the concerned will be alleast one other modules as the Selection process graments. For this purpourage grade of all assectuding Chemie (Chelows: First, applicant dits (qualitative rank applicants' position iding to this third rank king or otherwise by Selection process grammber of ECTS credithe same number of sters of the respectiv lot. Quota 3 (25 % of Should the module be | oup 2 (5%): Places will be allocated according to the its already achieved in modules/module compone ECTS credits achieved, places will be allocated by e applicant; among applicants with the same num | CTS credits will be given 55% of places will be 6 of places (a minimula with 60 ECTS credits that its), each with 180 her 'importing' subject on the places will be alloces with a restricted nuren places on all courses upplicants who alreadies are preferential considered according to the applicant of ECTS credits the components in the cost) at the time of applicant who alreadies weighted according to the second of ECTS credits achies these two rankings, and the following quotas: Cents of the Faculty of Elot. Quota 2 (25% of other of subject semestics) | ven preferential consideration. e allocated to students of the Bam of one place in total) will be allocated to students of the Bachelor's ECTS credits, as part of the applicates). Should the number of places rated to applicants from the other mber of places, there will be a unisof a module component that are y have successfully completed at deration. Its' previous academic achievement have achieved and their avesubject of Biologie (Biology) (explication. This will be done as folloiding to the number of ECTS creaved (quantitative ranking). The not places will be allocated accordaccording to the qualitative ranking) among applicants with places): number of subject semeters, places will be allocated by | | | | | | |

| 07-ASQ-NCB-201- | Nature | Nature Conservation Biology | | | | | | | | | | | |
|-----------------|--|-----------------------------|----------|---|--|--|-------------|----------|--|--|--|--|--|
| mo1 | ECTS | 5 | Duration | า | 1 semester | Method of grading (not) successfully completed | Modul level | | | | | | |
| | Courses | 5 | | | V (1) + Ü (2) Module taught in: German and/or English | | | | | | | | |
| | Method | l of asse | essment | Presentation (approx. 30 minutes) Language of assessment: German and/or English | | | | | | | | | |
| | Participants and allo- cation of places | | | max. | max. 20 places (Lottery) | | | | | | | | |
| 07-MMIE-182-m01 | Modelli | ing in E | cology | | | | , | | | | | | |
| | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | graduate | | | | | |
| | Courses | 5 | | Ü (5) Modu | le taught in: Germa | n and/or English | | | | | | | |
| | Method of assessment | | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: German and/or English | | | | | | | | | |
| 07-MMAC-242- | Macroe | cology | | | | - | ' | | | | | | |
| mo1 | ECTS | 5 | Duration | 1 | 1 semester | Method of grading numerical grade | Modul level | graduate | | | | | |
| | Courses | | | Ü (5) Module taught in: English | | | | | | | | | |
| | Method of assessment | | | a) written examination (30 to 60 minutes, including multiple choice questions) or b) log (15 to 30 pages) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) or e) presentation (20 to 45 minutes) Language of assessment: English | | | | | | | | | |
| 07-MS1CONS-231- | Conserv | vation E | Biology | | | | | | | | | | |
| mo1 | ECTS | 10 | Duration | า | 1 semester | Method of grading numerical grade | Modul level | graduate | | | | | |
| | Courses | 5 | | V (2) + S (1) Module taught in: German and/or English | | | | | | | | | |
| | Method of assessment | | | a) written examination (30 to 60 minutes, including multiple choice questions) or c) oral examination of one candidate each (30 to 60 minutes) or d) oral examination in groups of up to 3 candidates (30 to 60 minutes) Language of assessment: German and/or English | | | | | | | | | |

| 10-I-AGBN-211- | Selected Basics of Sustainability in Biology | | | | | | | | | | | |
|---------------------|--|----------------|---|---|--------------------------------|--------------------|------------------------------------|--|--|--|--|--|
| mo1 | ECTS 5 | Duratio | n 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | V (2) + Ü (2) | | | • | | | | | | |
| | | | Course type: alternativ | | | | | | | | | |
| | Method of | assessment | a) written examinatior b) log (approx. 10 to 2 | n (approx. 45 to 60 min | utes) or | | | | | | | |
| | | | c) oral examination of | one candidate each (a | oprox. 30 minutes) or | | | | | | | |
| | | | d) oral examination in | groups of up to 3 cand | idates (approx. 20 minutes pe | er candidate) or | | | | | | |
| | | | | ox. 20 to 30 minutes) or | | | | | | | | |
| | | | maximum of 4 hours) | on (on average approx. | 2 nours; time to complete will | vary according to | subject area but will not exceed a | | | | | |
| | | | Students will be inform | | and length of the assessment | prior to the cours | e | | | | | |
| | | | Language of assessm | Language of assessment: German and/or English | | | | | | | | |
| Key Skills Area (20 | ECTS credit | s) | | | | | | | | | | |
| Subject-specific Ke | y Skills (15 l | ECTS credits) | | | | | | | | | | |
| 10-I-SEM-In- | Seminar - S | Selected Topi | cs in Computer Science and Sustainability | | | | | | | | | |
| Na-212-m01 | ECTS 5 | Duratio | | Method of grading | numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | S (2) | | | | | | | | | |
| | Method of | assessment | term paper (approx. 10 to 15 pages) and presentation (approx. 30 to 45 minutes) with subsequent discussion Language of assessment: German and/or English | | | | | | | | | |
| 10-l-luE-212-m01 | Computer Science and Ethics | | | | | | | | | | | |
| | ECTS 5 | Duratio | n 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | | | |
| | Courses | | V/S (2) | | | | | | | | | |
| | Method of | assessment | a) written examination (approx. 60 to 120 minutes) or | | | | | | | | | |
| | | | b) term paper (10 to 15 pages) and presentation (30 to 45 minutes) with subsequent discussion Language of assessment: German and/or English | | | | | | | | | |
| | Referred to | in LPO I | § 22 II Nr. 3 b) | | | | | | | | | |
| 10-I-ASV-252-m01 | | atistics and V | | | _ | | | | | | | |
| | ECTS 3 | Duratio | | Method of grading | (not) successfully complete | d Modul level | | | | | | |
| | Courses | | V (1) + P (2) | | | | _ | | | | | |
| | Method of | assessment | a) Portfolio (Workload approx. 75 h) or b) Written exam (approx. 60-75 minutes If announced by the lecturer at the beginning of the course, the written examination may be replaced by an oral examination of one candidate each (approx. 20 minutes) or an oral examination in groups of 2 candidates (approx. 15 minutes per candi- | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | date). | | | - | · · · | | | | | |
| | | | Language of assessment: German and/or English creditable for bonus | | | | | | | | | |

| 10-InNa-PV-252- | Project Presentation | | | | | | | | | | | |
|---|------------------------|-----------|---|--|-------------------------------|---|----------------------------------|-----------------|---------------|--|--|--|
| mo1 | ECTS 2 Duration | | n | 1 semester Method of grading numerical grade Modul level undergraduate | | | | | | | | |
| | Course | S | • | S (3) | | <u>.</u> | | | | | | |
| | Method | d of asse | essment | Presentation of a self-developed project analogous to a trade fair presentation for computer science laypersons with discussion (approx. 10-15 minutes in total) Language of exam: German and/or English creditable for bonus | | | | | | | | |
| General Key Skills In addition to the n | | | | dents r | nay also take mod | ules offered by JMU as | part of the pool of general tran | sferable skills | (ASQ). | | | |
| General Key Skills | (subject | -specifi | c) | | | | | | | | | |
| 10-I-TUT1-152-m01 | Tutor a | ctivity 1 | <u></u> | | | | | | | | | |
| | ECTS | 2 | Duration | 1 | | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | - | · | T (2) | | | | | _ | | | |
| | Method of assessment | | | Wrap-up report on tutoring activities (5 to 10 pages) | | | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 2 f) § 22 Nr. 3 f) | | | | | | | | |
| 10-I-TUT2-152-m01 | Tutor a | ctivity 2 | 2 | | | | | | | | | |
| | ECTS | 2 | Duratio | | | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | | | T (2) | | | | | _ | | | |
| | Method of assessment | | Wrap-up report on tutoring activities (5 to 10 pages) | | | | | | | | | |
| | Referred to in LPO I | | | § 22 Nr. 2 f) § 22 Nr. 3 f) | | | | | | | | |
| 10-I-TUT3-152-m01 | Tutor activity 3 | | | | | | | | | | | |
| | ECTS | 2 | Duration | | | Method of grading | (not) successfully completed | Modul level | undergraduate | | | |
| | Course | | | T (2) | | | | | | | | |
| | Method of assessment | | Wrap-up report on tutoring activities (5 to 10 pages) | | | | | | | | | |
| Thesis (10 ECTS cre | edits) | | | | | | | | | | | |
| 10-InNa-BA-212- | Bachel | or's The | esis Comp | uter Science and Sustainability | | | | | | | | |
| mo1 | ECTS | 10 | Duration | | 1 semester | Method of grading | numerical grade | Modul level | undergraduate | | | |
| | Course | | | | No courses assigned to module | | | | | | | |
| | Method | d of asse | essment | | | ox. 50 to 100 pages) t: German and/or Engl | ish | | | | | |
| | Additional Information | | | Time | to complete: 10 we | eks. | | | | | | |